GARMIN

GPSMAP® 276C

chartplotting receiver

owner's manual

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Introduction

Thank you for choosing the Garmin® GPSMAP® 276C, which uses the proven performance of Garmin GPS and full-featured mapping to create an unsurpassed portable marine navigation chartplotter and automobile navigation device. Take a moment to compare the contents of this package with the packing list on the outside of the box; if any pieces are missing, contact your Garmin dealer immediately.

About This Manual

To get the most out of your new navigation system, read this manual and learn the operating procedures for your unit. This manual is organized into the following sections:

The **Introduction** contains the Table of Contents, Care Information, and Warnings.

The **Getting Started** section provides an overview of the unit, how to turn the unit on, and how to simulate navigation.

The **Marine Mode** section provides you with information about navigating with the GPSMAP 276C in Marine Mode.

The **Marine Mode Pages** section reviews the main pages in Marine Mode.

The **Automotive Mode** section provides you with information about navigating with the GPSMAP 276C in Automotive Mode.

The **Automotive Mode Pages** section reviews the main pages in Automotive Mode.

The **Main Menu** section describes features found on the Main Menu, and information on how to change settings.

The **Setting Up and Using Sonar** section provides instructions on using a Garmin GSD 20 or GSD 21 Sounder Module with your GPSMAP 276C.

The **Appendix** contains specifications, optional accessories, maintenance information, and other product information.

An **Index** is provided at the end of the manual for reference.

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Caring for the GPSMAP 276C

The GPSMAP 276C case is constructed of high quality materials and does not require user maintenance except cleaning.

Cleaning the Case

Clean the unit's outer casing (except for the screen) using a cloth dampened with a mild detergent solution and then wipe dry. Avoid chemical cleaners and solvents that might damage plastic components.

Cleaning the Screen

The GPSMAP 276C screen should be cleaned using a soft, clean, lint-free cloth. Water, isopropyl alcohol, or eyeglass cleaner can be used if needed. If these are used, apply the liquid to the cloth and then gently wipe the screen with the moistened cloth.

Storage

Do not store the GPSMAP 276C where prolonged exposure to temperature extremes might occur (such as in the trunk of a car) as permanent damage could result. User information, such as waypoints and routes are retained in the unit's memory without the need for external power. It is always a good practice to back up important user data by manually recording it or downloading it to a computer (transferring it to MapSource).

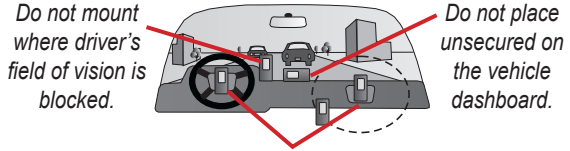
Water Immersion

The GPSMAP 276C is waterproof to IEC Standard 60529 IPX7. It can withstand immersion in 1 meter of water for 30 minutes. Prolonged submersion can cause damage to the unit. After submersion, be certain to wipe and air dry the unit before reuse or charging.

Warnings

Failure to avoid the following potentially hazardous situations could result in an accident or collision resulting in death or serious injury.

- When installing the unit in a vehicle, place the unit securely so that it does not obstruct the driver's view of the road or interfere with vehicle operating controls, such as the steering wheel, foot pedals, or transmission levers. Do not place in front of or above any airbag. (See diagram).


Do not mount where driver's field of vision is blocked.
Do not place unsecured on the vehicle dashboard.
Do not mount in front of an airbag field of deployment.

- When navigating, carefully compare information displayed on the unit to all available navigation sources, including information from street signs, visual sightings, and maps. For safety, always resolve any discrepancies or questions before continuing navigation and defer to posted road signs.
- Always operate the vehicle in a safe manner. **Do not become distracted by the unit while driving, and always be fully aware of all driving conditions**. Minimize the amount of time spent viewing the unit's screen while driving and use voice prompts when possible. Do not input destinations, change settings, or access any functions requiring prolonged use of the unit's controls while driving. Pull over in a safe and legal manner before attempting such operations.
- This unit is designed to provide route suggestions. It is not designed to replace the need for driver attentiveness regarding road closures or road conditions, traffic congestion, weather conditions, or other factors that may affect safety while driving.
- Use the electronic chart in the unit only to facilitate, not to replace, the use of authorized government charts. Official government charts and notices to mariners contain all information needed to navigate safely.
- Use this unit only as a navigational aid. Do not attempt to use the unit for any purpose requiring precise measurement of direction, distance, location, or topography.

WARNING: This product, its packaging, and its components contain chemicals known to the State of California to cause cancer, birth defects, or reproductive harm. This Notice is provided in accordance with California's Proposition 65. See www.garmin.com/prop65 for more information.

Important Information

MAP DATA INFORMATION: One of the goals of Garmin is to provide customers with the most complete and accurate cartography that is available to us at a reasonable cost. We use a combination of governmental and private data sources, which we identify in product literature and copyright messages displayed to the consumer. Virtually all data sources contain some inaccurate or incomplete data. In some countries, complete and accurate map information is either not available or is prohibitively expensive.

The California Electronic Waste Recycling Act of 2003 requires the recycling of certain electronics. For more information on the applicability to this product, see www.erecycle.org.

Battery Warnings

If these guidelines are not followed, the internal lithium-ion battery may experience a shortened life span or may present a risk of damage to the GPS unit, fire, chemical burn, electrolyte leak, and/or injury.

- Contact your local waste department to properly dispose of the unit/battery.
- Do not leave the unit exposed to a heat source or in a high temperature location, such as in the sun in an unattended vehicle on a hot day. To prevent damage, remove the unit from the vehicle or store it out of direct sunlight, such as in the glove box.
- Do not incinerate.
- When storing the unit for a limited length of time, store within the following temperature range: -4˚ to 140˚F (-20˚ to 60˚C). When storing the unit for an extended time, store within the following temperature range: 32˚ to 77˚F (0˚ to 25˚C).
- Do not operate the unit outside of the following temperature range: -4˚ to 131˚F (-20˚ to 55˚C).

NOTE: Refer to the **Specifications** section to determine if the lithium-ion battery in your specific Garmin product is replaceable.

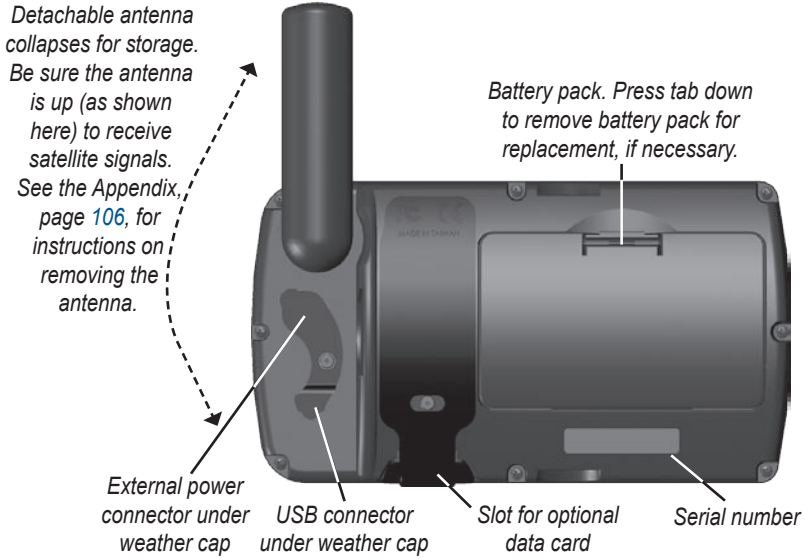
If this unit contains a replaceable, rechargeable lithium-ion battery, the following warnings also apply:

- Do not recharge the battery out of the unit or disassemble the battery.
- Keep the used battery away from children. Do not disassemble, puncture, or damage the battery.
- Only replace with a Garmin lithium-ion battery pack. Using another battery presents a risk of fire or explosion. To purchase a replacement battery, see your Garmin dealer or the Garmin Web site.

Getting Started

Unit Overview

The GPSMAP 276C is an all-in-one, versatile color chartplotter and automobile navigator—perfect for land or water. This portable GPS navigator features a 256-color TFT display that is easy to read in bright sun, a built-in basemap, and auto routing to provide you with automatically generated turn-by-turn directions.


Detachable antenna collapses for storage. Be sure the antenna is up (as shown here) to receive satellite signals. See the Appendix, page 106, for instructions on removing the antenna.
Battery pack. Press tab down to remove battery pack for replacement, if necessary.
External power connector under weather cap
USB connector under weather cap
Slot for optional data card
Serial number

Charging the GPSMAP 276C

Before using the GPSMAP 276C charge the battery. Plug the power cable into an external power source to charge. You can use the unit while it is charging.

To charge the unit's battery:

1. Lift the rubber weather cap to expose the power connector on the back of the unit. See the image on page 1 for connector location.
2. Align the notches and push the plug into the connector until fully seated.
3. Plug the 12-Volt adapter into an available AC outlet, or cigarette lighter receptacle if you have a cigarette lighter adapter. Use care when routing the cable; make sure it does not interfere with vehicle operation. The unit begins charging as soon as external power is applied.

TIP: Placing the unit in Charge Mode charges the unit more quickly than when the unit is turned on and reduces draw on the vehicle/vessel battery.

When you turn on the GPSMAP 276C the power source indicator on the GPS tab shows the unit is operating off battery power ( ), that the unit is charging ( ), or that an external power source is in use ( ).

Using Charge Mode

If you want to charge the battery when you are not using the unit, you can put the unit into Charge Mode.

To put the GPSMAP 276C in Charge Mode:

1. Connect the GPSMAP 276C to an external power supply.
2. Press and hold the **POWER** key. Instead of completely turning off, the GPSMAP 276C goes into Charge Mode.

NOTE: While in Charge Mode, the GPSMAP 276C draws a small amount of current from the vessel/vehicle battery. To avoid discharging the vehicle's battery, disconnect the external power cable from the unit when not in use for several days.

Over time, you might notice that the lithium-ion battery in the unit is not holding a charge any more. This is common for lithium-ion batteries. Contact Garmin or your Garmin dealer to order a battery pack replacement if you are experiencing battery charging issues.

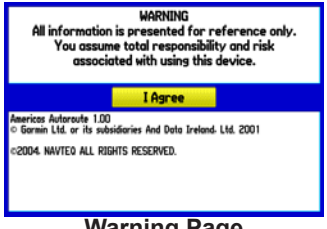
Turning Your GPSMAP 276C On or Off

Before you turn on your GPSMAP 276C, be sure the antenna is up as shown on page 1, and it has a clear and unobsturcted view of the sky to receive satellite signals.

The first time you turn on your GPSMAP 276C, the GPS receiver must collect satellite data and establish its current location. To ensure proper initialization, the GPSMAP 276C is shipped from the factory in AutoLocate mode, which allows the receiver to "find itself" anywhere in the world.

To turn the GPSMAP 276C on and off:

1. Press and hold the **POWER** key. When the unit turns on, a tone sounds and the Warning Page appears.


WARNING
All information is presented for reference only.
You assume total responsibility and risk
associated with using this device.
I Agree
Americas Autoroute 1.00
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©2004. NAVTEQ ALL RIGHTS RESERVED.

Warning Page

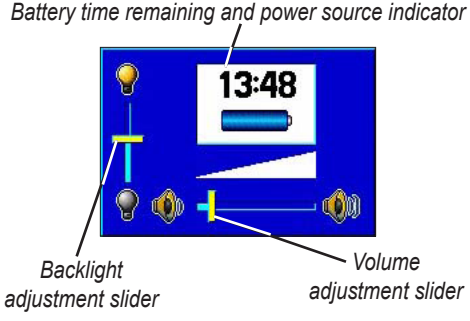
2. Read the warning, and then press **ENTER** to continue.
3. To turn off the GPSMAP 276C, press and hold the **POWER** key again.

Adjusting the Backlight and Volume

You can adjust the backlight to see the screen better. If you are using the external speaker with the 12/24-Volt adapter cable with the GPSMAP 276C, you can adjust the volume level of the audio output.

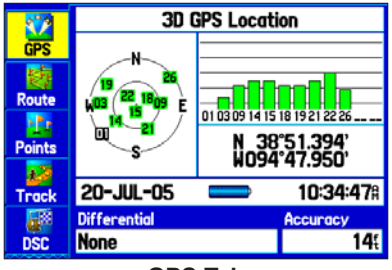
To adjust the backlight level or volume:

1. Press and quickly release the **POWER** key.
2. Press up on the **ROCKER** to increase the brightness or press down to decrease. Press right to raise the volume or left to lower.
3. Press **ENTER** or **QUIT** to close the Backlight/Volume adjustment window.



Getting Satellite Signals

After you turn on the GPSMAP 276C, the unit automatically begins searching for satellites. The GPS Page appears while the unit is gathering satellite signals and acquiring a fix, which should take only a few minutes. While the GPSMAP 276C is getting satellite signals, the GPS page shows the status as "Acquiring Satellites".



GPS Tab

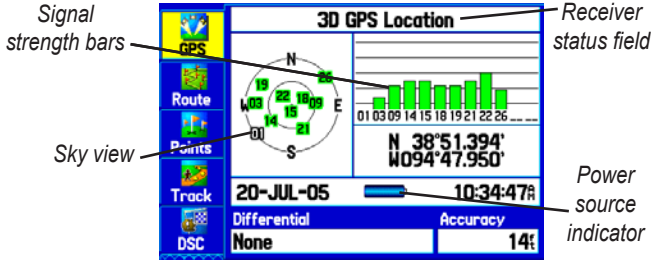
NOTE: While acquiring satellites, the Map Page might show the wrong location. Wait a few more minutes to acquire satellites and find your current location.

Viewing GPS Status with the GPS Tab

The GPS tab provides a visual reference of satellite acquisition, receiver status, and accuracy. The sky view and signal strength bars show what satellites are visible to the receiver and whether they are being tracked.

As the receiver locks onto satellites, a signal strength bar appears for each satellite in view, with the appropriate satellite number underneath each bar. The numbers below each bar represent the particular satellite that is being received. Numbers above 33 indicate WAAS satellites.

The sky view shows a bird's eye view of the position of each satellite relative to the receiver's last known position. The outer circle represents the horizon (north up), the inner circle represents 45º above the horizon, and the center point represents a position directly overhead. You can also set the sky view to a Track Up configuration, causing the top of the sky view to align along your current track heading. Press **MENU** to change the configuration of the sky view.



GPS Status

The progress of satellite acquisition is shown in three stages:

- **No signal strength bars**—the receiver is looking for the satellites indicated.
- **White signal strength bars**—the receiver has found the satellite and is collecting data.
- **Green signal strength bars**—the receiver has collected the necessary data from this satellite.

When the GPSMAP 276C collects the necessary data from the best satellites in view to calculate a fix, the status field indicates the status of the receiver. The unit then updates the location, date, and time.

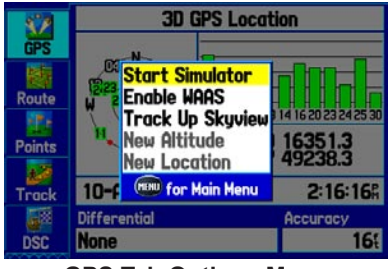
Receiver Status

The Receiver Status field shows one of the following conditions:

- **Searching the Sky**—the receiver is looking for satellites.
- **AutoLocate**—the receiver is looking for any satellite whose almanac was collected, which can take up to five minutes.
- **Acquiring Satellites**—the receiver is looking for and collecting data from satellites visible at its last known or initialized location but has not acquired a fix.
- **2D GPS Location**—At least three satellites were acquired and a two-dimensional position fix was calculated. "2D Differential" appears when you are receiving DGPS corrections in 2D mode, and a "D" appears on the strength bar of satellites being corrected.
- **3D GPS Location**—At least four satellites were acquired and a three-dimensional fix was calculated. "3D Differential" appears when you are receiving DGPS corrections in 3D mode, and a "D" appears on the strength bar of satellites being corrected.
- **Lost Satellite Reception**—the receiver is no longer tracking enough satellites for a 2D or 3D fix.
- **Receiver Not Usable**—the receiver is unusable, possibly due to interference or abnormal satellite conditions. Turn the unit off and back on to reset.
- **Simulating GPS**—the receiver is in Simulator Mode.
- **GPS Off**—the GPS receiver is turned off.

GPS Options

Press **MENU** twice to open the Main Menu. Use the **ROCKER** to highlight the **GPS** tab. Press **MENU** to open the options menu.



GPS Tab Options Menu

Start/Stop Simulator—starts and stops Simulator Mode, which is helpful when learning how to use your unit.

Enable/Disable WAAS—enables or disables WAAS capability. See page 108 of the "Appendix" for more information about WAAS.

Track Up Skyview/North Up Skyview—orients the sky view display on the GPS tab to North Up or Track Up.

New Altitude—allows you to manually enter your altitude.

New Location—allows you to enter a new location automatically or using the map.

GPS Tips

- While the receiver is gathering information, your location on the map might appear different from where you actually are located. As soon as the receiver gathers enough satellite information, your proper location appears on the map.
- Any time you have traveled more than 600 miles with the GPS receiver turned off, the receiver might take longer than normal to initialize and find your location.
- The GPS receiver can lose satellite signals due to interference from such items as buildings, tunnels, and heavy tree cover. Monitoring the GPS status is recommended.
- To learn about GPS, visit www.garmin.com/aboutGPS/.

PAGE Key

- Press to cycle through the main pages in sequence and exit a submenu page.
- Press and hold to switch between Marine and Automotive Modes.

QUIT Key

- Press to cycle through the main pages in reverse sequence, revert to the previous value in a data entry field, or cancel an unintended function.

ENTER/MARK Key

- Press to select a highlighted option.
- Press and hold to mark your current location as a waypoint.

MENU Key

- Press to open the options menu for the current page.
- Press twice to open the Main Menu.

POWER Key

- Press and hold to turn the unit on or off.
- Press and release to adjust the backlighting and external speaker volume.

IN and OUT Keys

- Press to adjust map zoom range to show a larger area with less detail (zoom out) or a smaller area with more detail (zoom in).

ROCKER

- Press up, down, left, or right to highlight options and to enter data, or use to pan the arrow on the Map Page.

NAV/MOB Key

- Press to open the Navigate Menu.
- In Marine Mode, press and hold to start the MOB function.
- In Automotive Mode, press and hold to show the Next Turn Page and announce the next turn when using the external speaker.

FIND Key

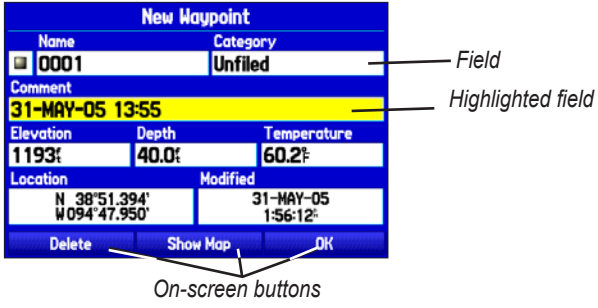
- Press to quickly search for and access user waypoints, cities, and other items used for navigation.

Using the GPSMAP 276C

The advanced keypad system on the GPSMAP 276C is designed to allow you to select options and enter data quickly and conveniently. As you progress through this owner's manual, you are directed to press a specific key or highlight a field on the screen. When you are directed to press a key, you should press and quickly release the key. If the key needs to be held down for a period of time to start a secondary function, the instructions tell you to do so. When a field is selected on the screen, it is highlighted in yellow.

The following terms are used throughout this manual:

- **Highlight**—move the highlighted area on the screen up, down, left, or right with the **ROCKER** to select individual fields. Moving the highlight to a given location allows you to make a selection, begin data entry, or scroll through a list.
- **Field**—the location on a page where data or an option can be shown and entered. Highlight a field using the **ROCKER** to begin entering data or selecting options.
- **On-screen button**—use the **ROCKER** to highlight a button, and press **ENTER** to select the button.
- **Scroll bar**—when viewing a list of items too long to appear on the screen, a scroll bar appears along the right side of the list. To scroll through a list, press up or down on the **ROCKER**.
- **Default**—the factory setting saved in the unit's memory. You can change the settings, but you can also revert to the factory (default) settings when you select **Restore Defaults**.



Cartography

Optional Garmin data cards and MapSource CD-ROMs enhance the versatility of your GPSMAP 276C. With optional MapSource data, you can view listings of nearby restaurants, lodging, shopping centers, attractions and entertainment, and even retrieve addresses and phone numbers for any listed location.

The included USB Interface Cable or an optional PC Interface Cable (with a serial connector) is used to transfer MapSource CD-ROM data to the optional data card.

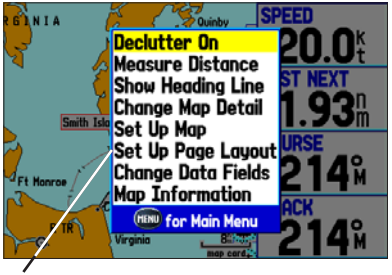
Visit the Garmin Web site at www.garmin.com/cartography/ for compatible MapSource products.

Selecting Options and Entering Data

Select options and enter data by using the **ROCKER** and **ENTER** key.

To select and activate an option:

1. From any page, press **MENU**. An options menu shows a list of optional features specific to that page.



Selecting an option from an options menu

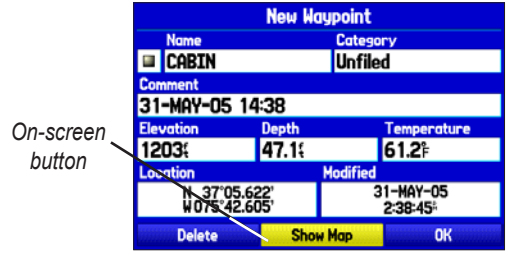
2. Use the **ROCKER** to move the highlight up, down, right, or left on the menu to the option you want to select.
3. Press **ENTER** to select the feature. Another window with more options might appear. If so, select an option, and press **ENTER** again.

To exit a menu or return to the previous setting:

Press **QUIT**. The **QUIT** key moves backward through your steps. Press **QUIT** repeatedly to return to the starting page.

To select an on-screen button:

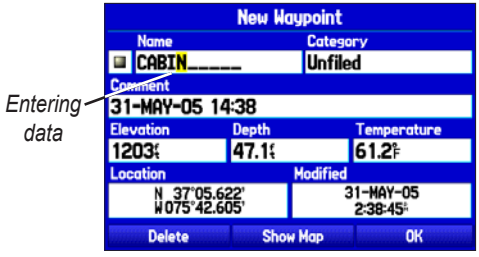
On a page with on-screen buttons, use the **ROCKER** to highlight an on-screen button, and press **ENTER**.



TO mark your current location as a waypoint, press and hold **ENTER/MARK** until the New Waypoint Page opens.

To enter data in a data field:

1. Use the **ROCKER** to highlight the data field you want, and press **ENTER** to select the field.
2. Press up or down on the **ROCKER** to select characters. Press right to move to the next character or press left to move back to the previous character. If there are two lines of data, keep pressing right on the **ROCKER** to drop to the next line.



TIP: To clear the entire data field, highlight the left-most character field and press left on the **ROCKER** again.

3. Press **ENTER**.

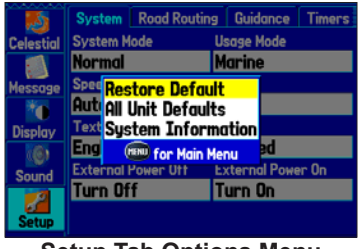
Not all fields are programmable. When you are on a page with fields that are not selectable, the highlight skips over them.

Restoring Default Settings

You can restore factory defaults for the following Main Menu tabs: Track, Alarms, Display, Sound, and Setup. For more information about the Main Menu, see the "Main Menu" section beginning on page 63.

To restore default settings:

1. Press **MENU** twice to open the Main Menu.
2. Use the **ROCKER** to highlight a tab, and then press **MENU** to open the options menu.



Setup Tab Options Menu

3. Highlight **Restore Default**, and press **ENTER**.

Using the Main Menu

Use the Main Menu on your GPSMAP 276C to access various waypoint, system, navigation and interface management, and setup menus. Press the **MENU** key twice from any page to open the Main Menu. For more information, see the "Main Menu" section on page 63.

Main Menu

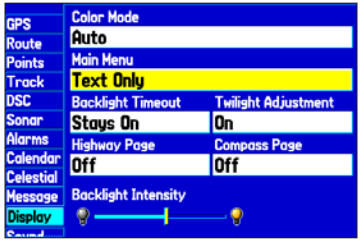
To select a tab from the Main Menu:

1. From any page, press **MENU** twice to open the Main Menu.
2. Press up or down on the **ROCKER** to highlight a tab. The information for the highlighted tab automatically appears on the right. To highlight a sub tab, press left or right on the **ROCKER**, and then press up or down to select individual fields.

By default, the Main Menu tabs are shown as icons along the left side of the screen. You can change the Main Menu to show tabs in a text-only format.

To view the Main Menu icons in text-only format:

1. Highlight the **Display** tab, and press **ENTER**.
2. Select the **Main Menu** field, and press **ENTER**.
3. Highlight **Text Only**, and press **ENTER**.



Using Simulator Mode

Simulator Mode is great for practicing with the unit if you are indoors or when satellite signals are not available. All waypoints and routes created in Simulator Mode are retained in memory for future use.

NOTE: Do not try to navigate using Simulator Mode. When the unit is set to Simulator Mode, the GPS receiver is turned off. Any satellite signal strength bars shown are only simulations and do not represent the strength of actual satellite signals.

To turn on Simulator Mode:

1. Highlight the **GPS** tab on the Main Menu.
2. Press **MENU** to open the GPS tab options menu.
3. Highlight **Start Simulator**, and press **ENTER**.

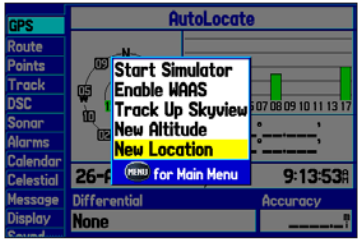
Starting Simulator Mode from the GPS tab

Entering a New Location

Use the GPS options menu to enter a new location from which to simulate.

To enter a New Location using the map:

1. Highlight the **GPS** tab on the Main Menu.
2. Press **MENU** to open the options menu.
3. Highlight **New Location**, and press **ENTER**.



4. Highlight **Use Map**, and press **ENTER**.
5. Use the **ROCKER** to move the panning arrow to the location you want on the map, and press **ENTER**.

Marine Mode

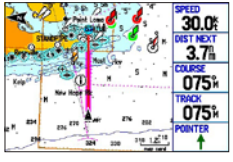
This section explains some of the more common operations you can perform with your GPSMAP 276C while on the water.

To switch usage modes:

1. Press and hold the **PAGE** key. The Usage Mode Menu appears.
2. Select **Automotive** or **Marine**, and press **ENTER**.

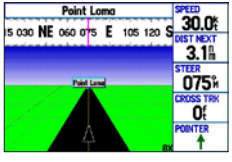
Marine Mode Pages

Marine Mode has five main pages: Map, Compass, Highway, Active Route, and Position Data. If you have a Garmin GSD 20 or GSD 21 Sonar Module connected to the GPSMAP 276C, a Sonar Page is available.



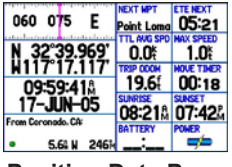
Map Page

Compass Page

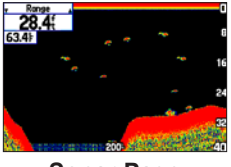


Highway Page

Active Route Page



Position Data Page



Sonar Page (Optional)

Navigating to a Destination

You can navigate to your destination using the Map Page. As you travel, you see a magenta line that always runs from your current location to the destination or to the next turn on the Map Page. You can use the Map Page, Compass Page, Highway Page, and Position Data Page to help navigate.

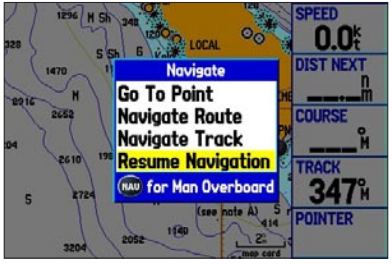
You can navigate to a destination using one of the following methods:

- Select a point on the map, and press **NAV**.
- Press **NAV** to start a new route using the Find Menu or start a saved route or track.
- Press the **FIND** key to search for a particular item and create a route to it.

MARINE Mode and Automotive Mode are similar. Most of the features discussed here also apply to Automotive Mode.

Navigate Options Menu

Press **NAV** to open the Navigate options menu.



Navigate Menu in Marine Mode

Go To Point—allows you to select a waypoint or point of interest from the Find Menu to which to navigate.

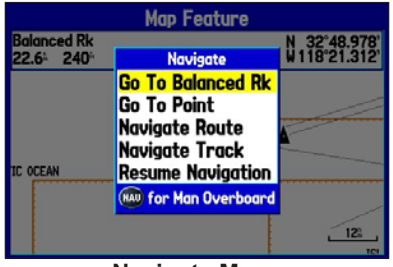
Navigate Route—allows you to select a route to navigate. You can also start a saved route through the Routes tab on the Main Menu. For information about routes, see page 20.

Navigate Track (TracBack)—allows you to select a saved track to navigate. You can also start a saved track through the Track tab on the Main Menu. For information about tracks, see page 34.

MOB (Man OverBoard)—creates a MOB waypoint and navigates to that location.

To navigate (Go To) a point on the map:

1. On the Map Page, highlight a point to navigate to, and press **NAV**.
2. Highlight **Go To <point name>**, and press **ENTER**.



Navigate Menu

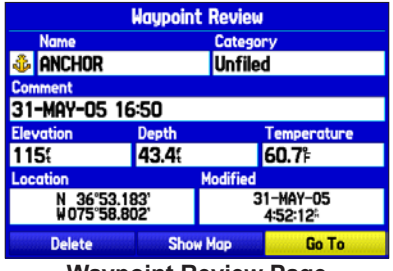
3. Follow the magenta route created on the Map Page.

To stop navigation:

1. While navigating to a point, press **NAV**.
2. Highlight **Stop Navigation**, and press **ENTER**.
3. Highlight **Resume Navigation**, and press **ENTER** to resume navigation.

To start a new route using the Find Menu:

1. Press the **NAV** key to open the Navigate Menu.
2. Highlight **Go To Point** (or **New Route** when in Automotive Mode), and press **ENTER** to open the Find Menu.
3. From the Find Menu, highlight **Waypoints**, and press **ENTER**.
4. Select a waypoint from the list, and press **ENTER** to open the Waypoint Review Page.

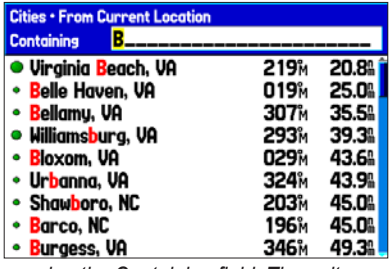


Waypoint Review Page

5. With the **Go To** button highlighted, press **ENTER** to begin navigation.

To search for an item and route to it:

1. Press **FIND** to open the Find Menu.
2. Highlight a category, and press **ENTER**.
3. Press **ENTER**,and then press the **ROCKER** up or down to enter letters contained in the item name. Press **ENTER** when finished.


Cities • From Current Location
Containing B
Virginia Beach, VA 219M 20.8
Belle Haven, VA 019M 25.0
Bellamy, VA 307M 35.5
Williamsburg, VA 293M 39.3
Bloxom, VA 029M 43.6
Urbanna, VA 324M 43.9
Shawboro, NC 203M 45.0
Barco, NC 196M 45.0
Burgess, VA 346M 49.3

Finding an item using the Containing field. The unit searches for items containing the letter combination you enter and shows them in the list.

4. Highlight the item from the list, and press **ENTER**.
5. Press **ENTER** when the **Go To** button is highlighted.

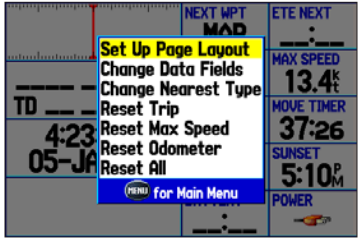
For complete information about finding an item, see the "Finding an Item" section on page 17.

Man OverBoard (MOB)

Use the MOB function to simultaneously mark your current location and create a direct route back to that location for quick response to emergency situations.

To start the MOB function:

1. Press and hold the **NAV/MOB** key, or press the **NAV/MOB** key twice.



2. Press **ENTER** to confirm and begin navigating to the MOB location.

When a MOB is activated, a MOB waypoint with an international MOB symbol is created, and the unit begins actively navigating to that point. Use any of the Navigation Pages to guide you back to the MOB point. The MOB waypoint is stored in the waypoint list and can be deleted like any other waypoint.

Finding an Item

Use the Find Menu to search for addresses, food & drink, fuel services, lodging, banks/ATMs, cities, shopping, stored waypoints and points of interest (POIs). To open the Find Menu, press the **FIND** key.

The Find Menu is comprised of several default categories: Waypoints, Cities, Exits, Transportation, and Tide Stations. Additional categories appear depending on the optional BlueChart or MapSource data card in the unit.

Find Menu

Shown without additional BlueChart or MapSource maps installed

Follow the directions on page 16 to search for an item and route to it.

Finding an Item From Another Location

You can use the Find Menu to center your search around an item you just found. For example, you search for Entertainment and the search shows a "Chili's" search result. If you press **FIND** again, you see "From Chili's" as the new search from point. You can also use the Find feature to center your search from any waypoint, route list entry, map item, or tide station.

To find an item from another location on the map:

1. Open the Map Page. Use the **ROCKER** to pan the arrow (pointer) to the location you want, and press **FIND**. The Find Menu opens, showing "From Map Pointer". The list of items is sorted to show items nearest the selected location.
2. Highlight a category from the list, and press **ENTER**.
3. Highlight an item from the list, and press **ENTER**. The item's information page automatically opens, allowing you to save the item as a waypoint, show the item on the map, or automatically create a route to (Go To) the item.

To find an item from another location:

1. From any page, press **FIND**.
2. Highlight a category from the list, and press **ENTER**.
3. Press **MENU** to open the options menu.

Find From Options Menu

4. Highlight **Near Other**, and press **ENTER**. If you are actively following a route, you can also select one of the other options listed in the Find From list.
5. Select a reference location on the map, and press **ENTER**. The list shows items nearest to the new map location.

To find an item near another item:

1. Press **FIND**. The Find Menu opens.
2. Highlight the item you want to Find From.
3. Press **FIND**. The Find Menu opens again with items near the previously selected item. Search for the item you want.

Viewing Recently Found Items

The Recently Found Page shows a list of the items you have searched for or gone to recently.

To view recently found items:

1. Press **FIND**. The Find Menu appears.
2. Highlight **Recently Found**, and press **ENTER** to open the list of recently found items.
3. Press **MENU** to show the options menu.
4. Select **Show Find History** to view the list of items you have searched for recently.
   OR
   Select **Show Go To History** to view the list of items for which you have recently created a Go To (Go To History).
5. Highlight **Remove Point**, and press **ENTER** to delete the selected recently found point.

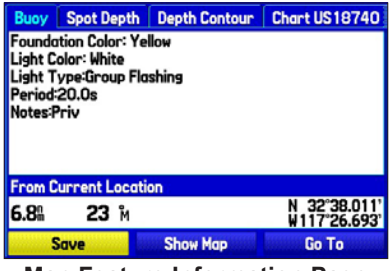
Viewing the Information Page

Each item on the map and each item listed in the results list has an information page.

To view details about an item:

1. Highlight a point on the map or in the search results list, and press **ENTER**.

   An information page appears with details about the item in a tabbed format. Depending on the type of item selected, and if you are using optional BlueChart data cards, additional information is available for viewing the item on the map, viewing a tide chart, viewing the list of maps on your data card, and viewing the next item in the search results list.



Map Feature Information Page

2. Press **QUIT** or **PAGE** to exit the information page. You can also highlight one of the on-screen buttons, and press **ENTER**.

Find Menu Options

To view additional Find Menu options, press **FIND**, and then press **MENU**. The following options are available:

- **Enable Auto Arrange**—automatically arranges the Find Menu. When selected, **Disable Auto Arrange** and **Restore Default** options are available.
- **Near Other**—select a new location from which to compile the Find items lists. Using the **ROCKER**, move the map arrow to the location you want, and press **ENTER**.
- **Map Information**—shows information about the detailed map data stored on the data card and allows you to select which maps appear on the Map Page.

Additional selections are included in the options menu when you are navigating:

- **Near Next**—compiles the Find items lists based on the next turn in the route.
- **Near Destination**—compiles the Find items lists based on the route destination.
- **Near Current Route**—compiles the Find items lists based on the active route.

Creating and Using Routes

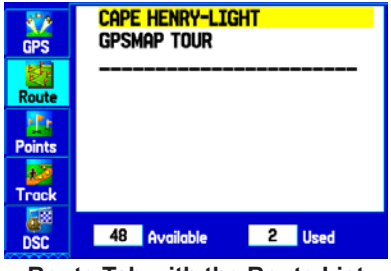
The GPSMAP 276C allows you to create and store up to 50 reversible routes, with up to 300 points each.

Creating a New Route

Use the Route tab to create a route by selecting waypoints from the Find Menu, or by selecting waypoints or map items from the Map Page.

To create a route using the Find Menu:

1. Highlight the **Route** tab on the Main Menu.

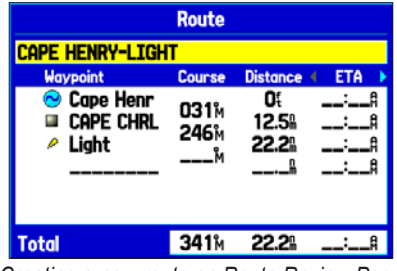


Route Tab with the Route List

2. Press **MENU** to open the Route options menu.
3. Highlight **New Route**, and press **ENTER**.
4. Press **ENTER** to find items to add to the route.
5. Highlight **OK**, and press **ENTER** to add a route point.
6. Repeat steps 4 and 5 to define additional route points.

To create a route using the map:

1. Highlight the **Route** tab on the Main Menu.
2. Press **MENU** to open the Route options menu.
3. Highlight **New Route**, and press **ENTER**.



Creating a new route on Route Review Page

4. Highlight **Edit on Map**, and press **ENTER**.
5. Highlight a location on the map, and press **ENTER**.
6. Repeat step 5 to define additional route points.

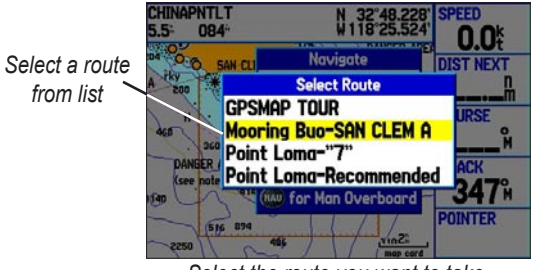
NOTE: If you select an area of the map that is not a feature or a waypoint, a new waypoint is created for that location. Press **ENTER** on the New Waypoint Page to save the location as a waypoint and continue adding points to your route. You can edit the properties of this waypoint as you can with any waypoint.

Navigating a Saved Route

Use the Navigate Route option to select and navigate a saved route.

To navigate a saved route:

1. Press the **NAV** key.
2. Highlight **Navigate Route**, and press **ENTER**.
3. Highlight a previously saved route, and press **ENTER**.



Select the route you want to take.

Editing a Route

After you create a route, use the Route Review Page to edit, change the name, and review route points of a selected route.

To change the name of the route:

1. Highlight the **Route** tab on the Main Menu.
2. Highlight the name of the route, and press **ENTER**.
3. With the Route Review Page open, highlight the route name field at the top of the page, and press **ENTER**.

Route Review Page

4. Use the **ROCKER** to enter the route name, and press **ENTER**.

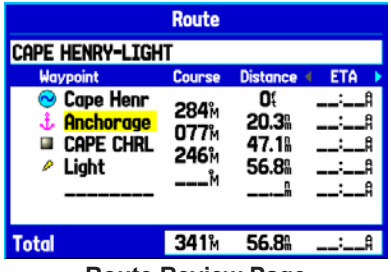
To review individual route points:

1. Highlight the **Route** tab on the Main Menu.
2. From the Route List Page, highlight the name of the route, and press **ENTER**.
3. From the Route Review Page, highlight a point, and press **ENTER**.
4. On the Point Review Page, choose **Next** (highlight the next point on the route list), **Show Map** (show the point on a map window), or **Save** (save the point as a waypoint) and press **ENTER**. If the route point is a user waypoint, you can edit any of the waypoint properties on the Waypoint Page (see the "Creating and Using Waypoints" section beginning on page 24 for details).

When you return to the Route Review Page, the next point in the route is automatically highlighted. You can review each point on the route by pressing **ENTER** repeatedly.

To add points to the route:

1. Select the **Route** tab on the Main Menu.
2. Highlight a route, and press **ENTER**.
3. Highlight the spot in the route that you want to add the new point. (The new point is added before the highlighted route point).
4. Press **MENU**.
5. Highlight **Insert Waypoint**, and press **ENTER**. The Find Menu opens for you to search for and select the point you want to add to the route.

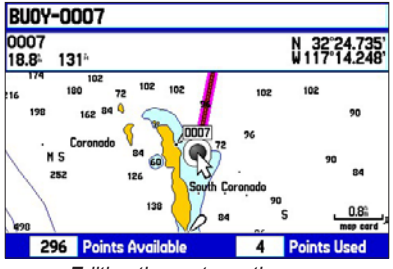


Route Review Page

6. On the Point Review Page, highlight **OK**, and press **ENTER** to add the new point to the route.

To edit the route on the map:

1. Highlight the **Route** tab on the Main Menu.
2. Select a route, and press **ENTER**. Press **MENU** to open the Route Review Page options menu.
3. Highlight **Edit on Map**, and press **ENTER**.
4. Select a location on the route (the route turns red when the arrow is over the route), and press **ENTER**.
5. Use the **ROCKER** to drag the route to the new point location, and press **ENTER**.



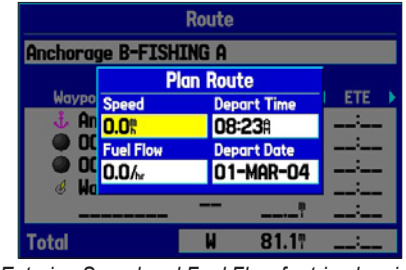
Editing the route on the map

6. Repeat steps 4 through 5 until all points are added to the route.

You can enter information about your trip so the GPSMAP 276C can estimate information about your trip.

To plan your route:

1. Open the Route Review Page options menu.
2. Highlight **Plan Route**, and press **ENTER**.



Entering Speed and Fuel Flow for trip planning

3. Enter the data for Speed and Fuel Flow. You also can enter the date and time of your departure. Press **QUIT** to return to the Route Review Page.

NOTE: Fuel flow rates are measured in units per hour. System setting changes for units of measure (statute, nautical, or metric) do not affect the fuel flow measure. You should enter fuel flow rates based on information for your vehicle (such as the operator's manual or performance specifications), and make note of the units of measure (gallons or liters).

Transitioning to the Next Waypoint

From the Route tab option menu, highlight **Set Up Routes** and press **ENTER** to set the route leg transition (or waypoint transition). Select **Distance** to enter a radius so that when you are within the entered distance, the GPSMAP 276C leads you to the next point on your route.

When you select **Manual**, you can transition to the next waypoint anytime while navigating a route. While you are navigating the route, open the Active Route Page, and press **MENU**. Highlight **Next Route Waypoint**, and press **ENTER** to have the GPSMAP 276C start routing you to the next point in your route.

Creating and Using Waypoints

Waypoints are locations or landmarks you record and store in your GPS. They are locations you might want to return to later, such as checkpoints on a route or significant ground features. You can add waypoints to routes and even create a Go To directly to the selected waypoint.

The GPSMAP 276C stores up to 3,000 alphanumeric waypoints with a user-defined icon, comment, elevation, depth, and temperature available for each waypoint. Waypoints can be created using three basic methods:

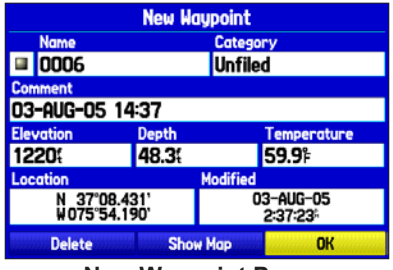
- **ENTER/MARK**—allows you to quickly mark your present location.
- **Graphically**—allows you to define a new waypoint location from the map using the **ROCKER**.
- **Text Entry**—allows you to enter a new waypoint's location coordinates manually.

Marking Your Present Location

Use the **ENTER/MARK** key to capture your present location to create a new waypoint. You must have a valid position (2D or 3D) fix to mark your present location.

To mark your present location:

1. Press and hold the **ENTER/MARK** key until the New Waypoint Page opens, then release it. A default four-digit name and symbol are assigned for the new waypoint.



New Waypoint Page

2. To accept the waypoint with the default information, use the **ROCKER** to highlight **OK**, and press **ENTER**.

   To change any information on the New Waypoint Page, highlight the appropriate field, and press **ENTER**. After entering and confirming your changes, highlight **OK**, and press **ENTER**.

Creating Waypoints Using the Map

You can quickly create a waypoint using the Map Page. When you pan the map and move the arrow over a map item, you see a highlighted description of that item. The GPSMAP 276C uses the map item text shown on the map as the default name and symbol for the new waypoint.

To create a new waypoint using the Map Page:

1. Press **PAGE** until the Map Page appears.
2. Use the **ROCKER** to move the arrow to the map location or map feature you want.
3. Press and quickly release **ENTER/MARK** to capture the arrow location. Pressing and holding **ENTER/MARK** marks your current location, not the arrow's location.

   If you have highlighted a map feature, an information page opens after you press **ENTER**. Highlight **Save**, and press **ENTER** to save the map item as a waypoint. The New Map Waypoint Page opens.
4. To accept the waypoint with the default information, highlight **OK**, and press **ENTER**.

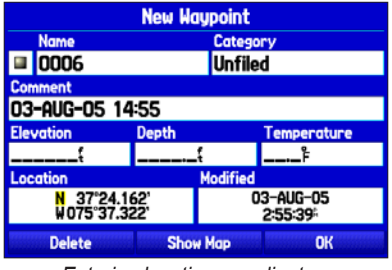
   To change any information on the New Map Waypoint Page, highlight the appropriate field, and press **ENTER**. After entering your changes, highlight **OK**, and press **ENTER**.

Creating a Waypoint by Entering Coordinates

You can manually enter location coordinates to create a waypoint. This method is useful for creating a waypoint at a specific latitude/longitude position from a chart.

To create a new waypoint by entering location coordinates:

1. Press and hold **ENTER/MARK** to create a waypoint. The new waypoint is created with the next available waypoint number and the receiver's last known location as the default location.
2. On the New Waypoint Page, highlight the **Location** field, and press **ENTER**.



Entering location coordinates.

3. Use the **ROCKER** to enter location coordinates, and press **ENTER** when finished.

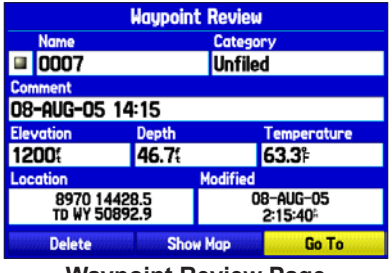
To change any of the other information on the New Map Waypoint Page, highlight the appropriate field, and press **ENTER**. After entering your changes, highlight **OK**, and press **ENTER**.

Reviewing a Waypoint

After you create and store a waypoint, you can modify, review, rename, move, or delete it at any time using the Waypoint Review and Waypoint Edit Pages.

To access the Waypoint Review Page:

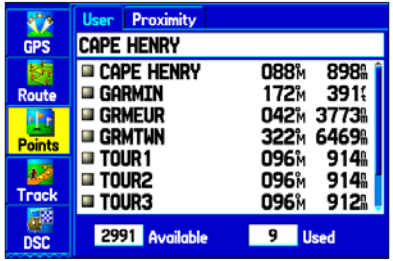
Highlight a waypoint on the Map Page, and then press **ENTER** to open the Waypoint Review Page. If the waypoint is located on a map feature or MapSource or BlueChart feature, the Waypoint Review Page might include additional tabs containing information about other features at that location.



Waypoint Review Page

To access the Waypoint Edit Page:

1. Highlight the **Points** tab on the Main Menu, and then select a waypoint from the list.



Points Tab

2. Press **ENTER** to open the Waypoint Edit Page.

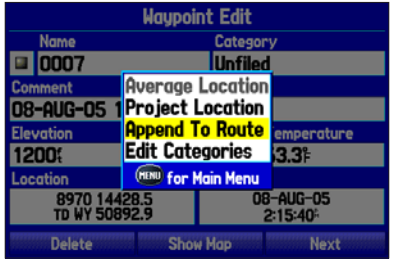
NOTE: If the waypoint is located on a map feature or MapSource or BlueChart feature, the Waypoint Edit Page does not show the details of the other map features.

Adding a Waypoint to a Route

Use the **Append to Route** option to add the selected waypoint to the end of a route. This option is available only when you are not navigating. When you are navigating to a destination, **Add to Current Route** opens. The selected waypoint is added to the current route before the route destination.

To add a waypoint to the end of the route:

1. Open the Waypoint Edit Page, and press **MENU** to open the options menu.



Waypoint Options Menu

2. Select **Append To Route**. The Select Route window opens.

3. Highlight a route or select **New Route**, and press **ENTER**.
4. Highlight **OK**, and press **ENTER** to save the waypoint.

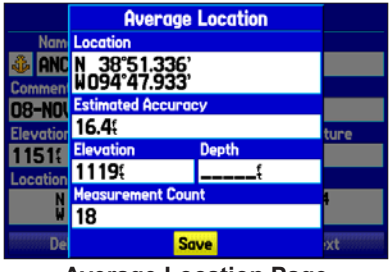
Averaging the Waypoint's Location

Average Location makes the unit take several sample location measurements for the waypoint and recalculate for a more accurate location reading.

NOTE: You must have a GPS satellite fix before you can average a waypoint's location.

To calculate the average location:

1. Open the Waypoint Page, and press **MENU**.
2. Select **Average Location**, and press **ENTER**. The Average Location window opens. The fields change as the unit calculates the average location of the waypoint.



Average Location Page

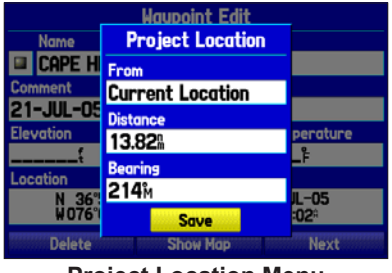
3. Press **ENTER** to save the location.

Projecting a Waypoint

You can also create a new waypoint by projecting the distance and bearing from a specific location to a new location.

To create a new waypoint by projecting its location:

1. Create a waypoint. The new waypoint uses the next available waypoint number and the receiver's last known location as the default location.
2. Highlight the **Points** tab on the Main Menu, and then select a waypoint. Press **ENTER**.
3. Press **MENU** to open the Waypoint Page options menu.
4. Highlight **Project Location**, and press **ENTER**.



Project Location Menu

Enter the distance, bearing, and location.

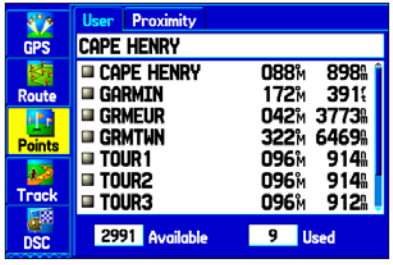
5. To change the location from which you are projecting the new waypoint, highlight the **From** field, and press **ENTER**.

6. Select the point from which you can project your new waypoint. For more information see the "Finding an Item" section on page 17.
7. To adjust the distance that the new waypoint is projected beyond the original waypoint, highlight the **Distance** field, and press **ENTER**. Enter the projection distance, and press **ENTER**.
8. To adjust the bearing that the new waypoint is projected from the original waypoint, highlight the **Bearing** field, and press **ENTER**. Enter the bearing, and press **ENTER**.
9. When you have adjusted all elements of the projected location, highlight **Save**, and press **ENTER**.
10. Make any other changes to the new waypoint data (such as the name or symbol); highlight **OK**, and press **ENTER**.

Editing a Waypoint

You can edit waypoints using the Points tab on the Main Menu. The User sub tab, on the Points tab, shows a master list of all waypoints stored in memory. From the User list, you can review, edit, rename, or delete individual waypoints or delete all user waypoints.

The number of stored and available waypoints is shown at the bottom of the User sub tab. Stored waypoints are arranged in alphanumeric order.



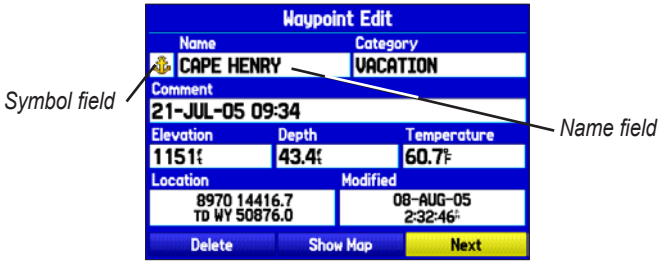
User Sub Tab

To navigate (Go To) a waypoint from the Points tab:

1. Select the **Points** tab on the Main Menu, and then highlight the **User** sub tab.
2. Highlight the waypoint you want in the list.
3. Press **NAV** to open the Navigate Menu. Highlight **Go To <Point Name>**, and press **ENTER**.

To edit a waypoint:

1. Open the Waypoint Review or Waypoint Edit Page.
2. Highlight the waypoint name, symbol, or field you want to change, and press **ENTER**.
3. Use the **ROCKER** to select a symbol or enter data, and press **ENTER** when finished.



Waypoint Page

To edit the next waypoint in the list:

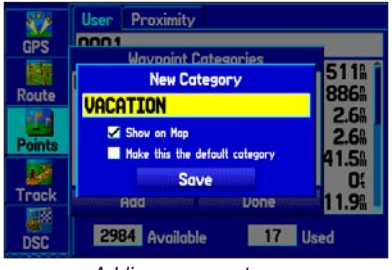
1. Highlight **Next**, and press **ENTER**. The Waypoint list appears with the next waypoint highlighted.
2. Press **ENTER** to edit that waypoint.

Organizing Waypoints into Categories

You can organize your waypoints into categories to help manage your waypoints. For example, you can create a Vacation category that stores all of the waypoints you want to use for your vacation. When the vacation is over, you can delete all the waypoints in that category. You can create up to 15 categories.

To create a waypoint category:

1. From any of the waypoint pages or the **Points** tab, press **MENU** to open the options menu.
2. Select **Edit Categories**, and press **ENTER**.
3. Highlight **Add**, and press **ENTER**.

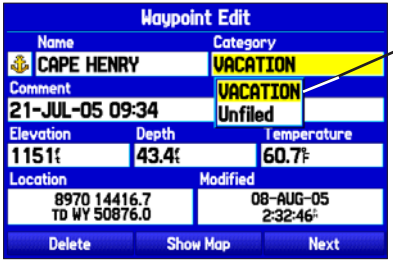


Adding a new category

4. Use the **ROCKER** to enter a name for the category.
5. Highlight **Save**, and press **ENTER**.

To assign a category to a waypoint:

1. Open the Waypoint Edit Page. (You can also change the category on the New Waypoint Page.)
2. Select the **Category** field, and press **ENTER**.
3. Select the category to which you want to assign the waypoint, and press **ENTER**.



Select the category to which you want to assign this waypoint.

Waypoint Page

To delete a category:

1. With the Waypoint Categories window open, highlight the category you want to delete, and press **MENU**.
2. Select **Delete Category**, and press **ENTER**.

Waypoint Categories Options Menu

3. Press **ENTER** again to finish deleting the category.

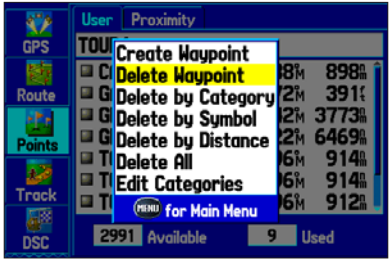
Deleting Waypoints

You can delete waypoints from the waypoint list on the Points tab or from the Waypoint Page. To delete a waypoint from the Waypoint Page, use the **ROCKER** to highlight the on-screen **Delete** button, and press **ENTER**.

NOTE: When you delete a waypoint from the list, it cannot be recovered from the unit. Backup important waypoints to a computer using the optional PC cable and interface software, such as MapSource, or write them down by hand.

To delete a waypoint from the User Points tab:

1. From the **Points** tab, highlight the waypoint you want to delete.
2. Press **MENU**, highlight **Delete Waypoint**, and press **ENTER**. A confirmation message appears.



3. Press **ENTER** to confirm.

To delete waypoints by symbol or category:

1. On the **User** sub tab, highlight the waypoint to delete, and press **MENU**.
2. Highlight **Delete by Symbol** or **Delete by Category**, and press **ENTER**.
3. When deleting by symbol, highlight the symbol of the waypoint you want to delete, and press **ENTER**. When deleting by category, select the category you want to delete from the list, and press **ENTER**.
4. Highlight **OK**, and press **ENTER** to confirm. Choose **Cancel** or press **QUIT** to exit without deleting the waypoint.

To delete waypoints by distance:

1. On the User sub tab, highlight the waypoint to delete, and press **MENU**.
2. Highlight **Delete By Distance**, and press **ENTER**.
3. Select **Less Than** or **More Than**, and enter the distance.
4. You can select a waypoint or point of interest as the **From** location. Highlight the **From** field and press **ENTER**. From the Find Menu, select a location, and press **ENTER**. When **OK** is highlighted, press **ENTER**.
5. Highlight **Delete**, and press **ENTER** to delete all waypoints within the set location. Choose **Cancel** or press **QUIT** to exit without deleting the waypoints.

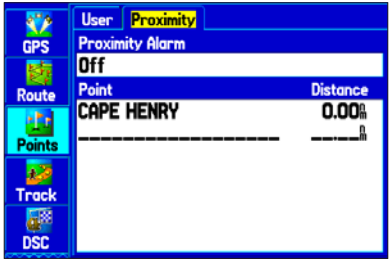
Proximity Points

Use the Proximity sub tab to define an alarm circle around a stored waypoint location. The alarm circle can help you avoid reefs, rocks, or restricted waters. Up to 100 waypoints can be listed with a maximum alarm radius of 99.99 nautical miles, statute miles, or kilometers.

If a proximity alarm circle overlaps an existing alarm circle, a "Proximity Overlaps Another Proximity Waypoint" message appears. Because the unit only alerts for one of the overlap points, use caution when navigating in these areas. If you enter an alarm circle overlap, you are only alerted to the closest proximity waypoint.

To turn proximity alarms on or off:

1. Highlight the **Points** tab on the Main Menu, and then highlight the **Proximity** sub tab.



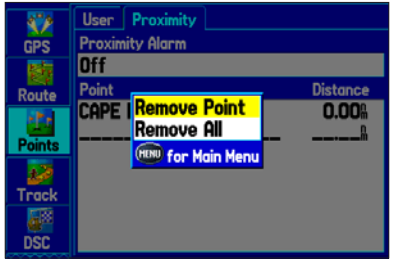
2. Highlight the field below **Proximity Alarm**, and press **ENTER**.
3. Select the **On** or **Off** setting, and press **ENTER**.

To add a proximity waypoint:

1. From the **Proximity** sub tab, use the **ROCKER** to highlight an empty line on the Proximity List, and press **ENTER**. The Find Menu opens.
2. Select a waypoint or point of interest from the Find Menu.
3. With **OK** highlighted, press **ENTER** to select the point. The distance field is now highlighted. Press **ENTER** to begin entering the proximity radius.
4. Use the **ROCKER** to enter a distance value (up to 99.99 units), and press **ENTER**.

To clear one or all proximity waypoints from the list:

1. Highlight the **Points** tab on the Main Menu, and then select the **Proximity** sub tab.
2. Highlight the proximity waypoint to clear, and press **MENU**.



Proximity Points Tab Options Menu

3. To clear a single alarm, highlight **Remove Point**, and press **ENTER**. To clear all proximity waypoints, select **Remove All**, and press **ENTER**.
4. Highlight **OK**, and press **ENTER** to confirm.

Managing Your Tracks

The GPSMAP 276C draws an electronic breadcrumb trail or track log on the Map Page as you travel. The track log contains points along its path, and includes both time and location for each point.

The track log starts recording as soon as the GPSMAP 276C gets a location fix. For the best results, clear the track log before you start traveling because when the track log is full, new track points overwrite the oldest track points.

The percentage of memory used by the current track log appears at the top of the Active tab. After the track log is cleared, it shows zero percent. When the track log reaches 100%, the most recent track points start to overwrite the oldest track points (if **Wrap** is selected for **Record Mode**). To avoid losing track points, save the track log when it approaches the 99% mark.

Setting Up and Saving Your Tracks

You must save the track log before you can use the **Navigate Track** feature. The **Save** feature allows you to store up to 15 track logs from certain times and dates.

To access the Track tab:

1. Press **Menu** twice to open the Main Menu.
2. Highlight the **Track** tab.

Track Tab

Record Mode—Wrap records over the oldest tracks when the track log reaches 100%. **Fill** records a track log until the track log is full (100%). When **Off** is selected, the unit does not record tracks.

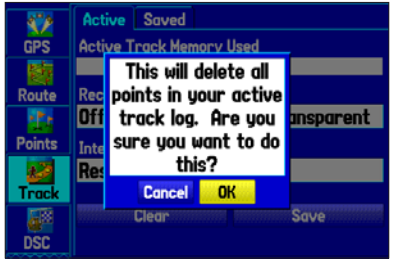
Interval—Distance records track points after a specified distance is traveled. **Time** creates track points after a specified time has elapsed. **Resolution** records track points based on the resolution. The higher the resolution entered, the more points the unit creates to make the track.

Color—select a color for the track when it appears on the map.

Value—records a track according to the **Interval** and **Value**. Enter a specific distance, time, or resolution.

To clear the track log:

1. Highlight the **Track** tab on the Main Menu, and then highlight the **Active** sub tab.
2. Highlight the **Clear** button, and press **ENTER**. A confirmation message appears.



Clearing the track log

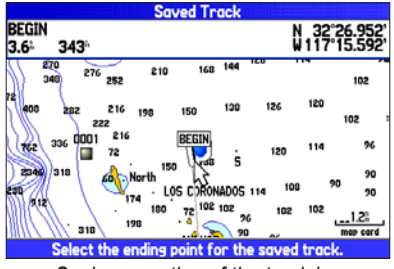
3. Highlight **OK**, and press **ENTER**.

To save the entire track log:

1. Highlight the **Track** tab on the Main Menu, and then highlight the **Active** sub tab.
2. Select **Save**, and press **ENTER**. A message appears asking if you want to save the entire track.
3. Highlight **Yes**, and press **ENTER**.

To save a portion of the track log:

1. Highlight the **Track** tab on the Main Menu, and then highlight the **Active** sub tab.
2. Select **Save**, and press **ENTER**.
3. Highlight **No**, and press **ENTER** when a message appears.
4. Select a beginning point, and press **ENTER**.



Saving a portion of the track log

5. Select an ending point, and press **ENTER**. The Track Review Page automatically opens.
6. Highlight **OK**, and press **ENTER** to save the track.

Saved Tracks

The Saved sub tab lists all of the saved tracks in your unit. Press **MENU** to open the Saved tab options menu.

Saved Sub Tab

Review on Map—shows the highlighted track on the Map Page.

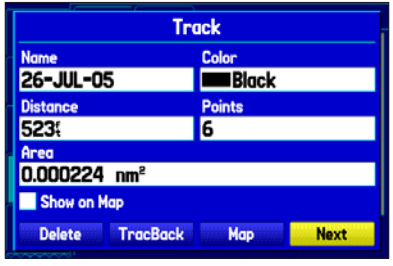
TracBack—navigates the track. You can either navigate the track as it is saved, or you can navigate the track in reverse.

Delete Track—erases the highlighted track from the unit's memory.

Delete All—erases all tracks from the unit's memory.

To edit a track:

1. Highlight the **Track** tab on the Main Menu, and then select the **Saved** sub tab.
2. Select a track to edit, and press **ENTER**.



Track Review Page

3. Highlight the **Name** field, and press **ENTER**. Use the **ROCKER** to change the name, and press **ENTER**.
4. Select a different display color to show the track on the map.
5. Highlight the box next to **Show on Map**, and press **ENTER** to show the track on the map.
6. To begin a TracBack, highlight **TracBack**, and press **ENTER**.
7. To view the track on the map, highlight **Map**, and press **ENTER**. Press **QUIT** to return to the **Track** tab.
8. Highlight **OK**, and press **ENTER** to save your changes.

Navigating a Saved Track

You can save your track log to use later as a TracBack, which reduces your track log into a route with up to 300 turns. When initiated, a TracBack route leads you back to the oldest stored track log point. It is a good idea to clear the existing track log before you start your current trip. Also, you must save an active track log before you can navigate it as a TracBack.

To start a TracBack using the NAV key:

1. Press **NAV**, highlight **Navigate Track**, and press **ENTER**.
2. Highlight the track you want to navigate, and press **ENTER**.

Selecting a saved track.

3. Select the point you want to navigate (TracBack) to, and press **ENTER**.

TracBack Tips

When a TracBack is initiated, the GPSMAP 276C divides the track into segments called legs. Up to 300 temporary turns are created to mark the most significant features of the track in order to duplicate your exact path as closely as possible. To get the most out of the TracBack feature, remember these tips:

- Always clear the track log at the point that which you want to go back (such as a dock or campsite).
- The **Record Mode** option on the Active Track tab must be set to **Fill** or **Wrap**.
- If the track log **Interval** option on the Active tab is set to the **Time** option, the route might not navigate your exact path (keep the interval set to **Resolution** for best performance).
- If the receiver is turned off or satellite coverage is lost during your trip, TracBack draws a straight line between any point where coverage was lost and where it resumed.
- If the changes in distance and direction of your track are too complex, 300 waypoints might not mark your path accurately. The receiver then uses the most significant points of your track so there are fewer changes in direction.

Marine Mode Pages

Five pages are available in Marine Mode—Map, Compass, Highway, Active Route, and Position Data. An optional Sonar Page is available when a GSD 20 or GSD 21 Sounder Module is connected.

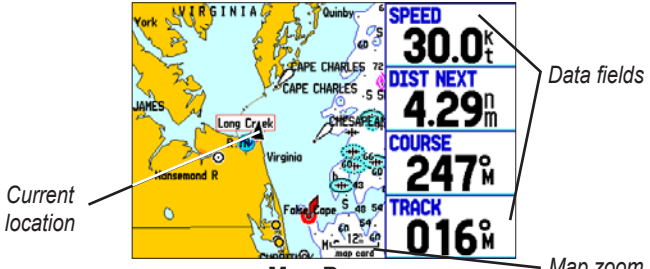
Map Page

When you turn on the GPSMAP 276C, the Map Page appears after the unit acquires a satellite signal. The position marker shows your current location on the map.

The Map Page shows map information (digital cartography) that includes navaids, lakes, rivers, coastlines, cities, and highways. Use the dedicated zoom keys (**IN** and **OUT**) to adjust the Map Page scale.

Two map operating modes, position mode and pan mode, determine what cartography is shown on the map. Position mode pans the map to keep your present location in the display area. The position marker shows your travel on the Map Page. The GPSMAP 276C always turns on in position mode, with the last known location centered on the map. When you press the **ROCKER**, the GPSMAP 276C enters pan mode, which moves the map to keep the white arrow (map pointer) within the display area.

The system has a built-in worldwide database, with more detailed coverage available through the use of the BlueChart or MapSource data. The GPSMAP 276C shows cartography as long as chart information is available for the map zoom range you selected.In Marine Mode, by default, four user-selectable data fields appear on the right side of the screen that can be configured to show any one of the possible data options. You can also add additional data fields to the page or select a full screen map without data fields.



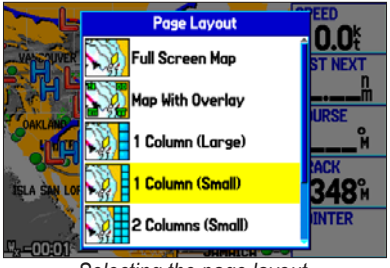
Map Page

Changing the Page Layout and Data Fields

You can adjust how the following pages appear: Map, Compass, Highway, Position Data, Trip Computer, and optional Sonar Pages. You can also adjust the data fields on each page.

To set up the page layout:

1. Press **MENU** to open the options menu.
2. Highlight **Set Up Page Layout**, and press **ENTER**.

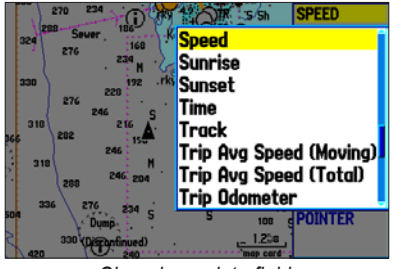


Selecting the page layout.

3. Select a page layout option, and press **ENTER**.

To change a data field:

1. Press **MENU** to open the options menu.
2. Highlight **Change Data Fields**, and press **ENTER**.
3. Highlight the data field to change, and press **ENTER**.
4. Highlight the type of data you want to show, and press **ENTER**.



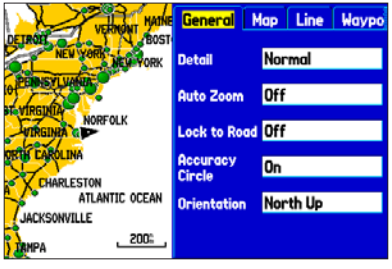
Changing a data field.

Setting Up the Map Page

Use the Set Up Map option to adjust how items appear on the Map Page.

To change a map setup option:

1. On the Map Page, press **MENU** to open the options menu.
2. Highlight **Set Up Map**, and press **ENTER**.



Setting up the Map Page.

3. Press left or right on the **ROCKER** to highlight a tab; press up or down on the **ROCKER** to highlight the field you want to change, and press **ENTER**.
4. Highlight a setting, and press **ENTER**.

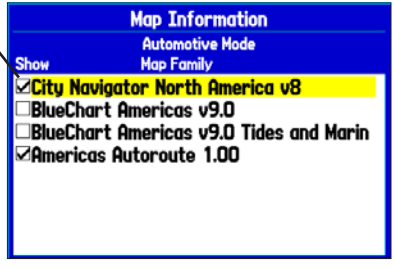
Viewing Additional Map Data

Use the Map information page to view the data loaded on your GPSMAP 276C unit and data card.

To review/change map information:

1. On the Map Page, press **MENU**.
2. Highlight **Map Information**, and press **ENTER**. The first page shows the map families stored on the data card and unit and whether they are shown on the Map Page.

*Map Family highlighted. Press **ENTER** to view the individual maps in the family.*

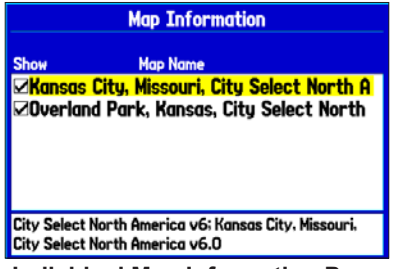


3. To change the setting for a map family, highlight the box next to the map family name and press **ENTER** to select (check mark) or deselect (no check mark) the **Show** setting.

NOTE: The outline of a check mark appears if one or more maps have been deselected within that map family.

4. To view the list of maps within a map family, highlight the name of the map family, and press **ENTER**.

5. When using a map loaded to a data card, you can view detailed information about an individual map, highlight the Map Name, and press **ENTER**. Highlight **OK**, and press **ENTER** to exit the Map Information Page.


Map Information
Show
Map Name
Kansas City, Missouri, City Select North A
Overland Park, Kansas, City Select North
City Select North America v6: Kansas City, Missouri.
City Select North America v6.0

Individual Map Information Page

Showing the individual maps that are in the selected map family.

6. To select/deselect individual maps (data card maps only) to show on the Map Page, highlight the box next to the map you want, and press **ENTER** to check or uncheck the **Show** box.
   OR
   Press **MENU**, select one of the options (**Show All**, **Hide All**, or **Show Defaults**), and press **ENTER**.

Map Orientation

There are three map orientation options: **North Up** orients the map like a paper map. **Track Up** orients the map in the direction of travel. **Course Up** orients the map so the direction of navigation is always up. When using Track Up or Course Up, the North arrow indicates the orientation. To change the map orientation, press **MENU** to open the Map Page. Press **MENU** again. Select **Set Up Map**, and press **ENTER**. See page 40 for additional information.

Zooming In and Out of the Map

The map display has 28 available map zoom ranges ranging from 20 ft to 800 nm (20 ft to 800 mi or 5 m to 1200 km). The map zoom range is controlled by the **IN** and **OUT** keys, with the current scale shown at the bottom right of the data window.

NOTE: The scale value represents the distance from one end of the scale bar (3 nm) to the other.

To select a map zoom range (zoom in and out):

Press the **OUT** key to zoom out, press the **IN** key to zoom in.

The GPSMAP 276C has a built-in worldwide database, with more detailed coverage available through the use of the BlueChart or MapSource data. The GPSMAP 276C shows cartography as long as chart information is available for the zoom scale you selected.

Map coverage conforms to the following conditions:

- Cartography is shown when the selected map zoom range is covered by either the internal basemap or other MapSource data loaded onto a data card.
- When the selected map zoom range is covered by both the internal database and data card map information, the cartography with the best resolution appears.
- When the selected zoom range exceeds the resolution of the data in use, “overzoom” appears below the map zoom range.

No additional data is available

- When external data (such as MapSource data) is used, “map card” appears below the map zoom range.

Using detailed maps loaded on the data card

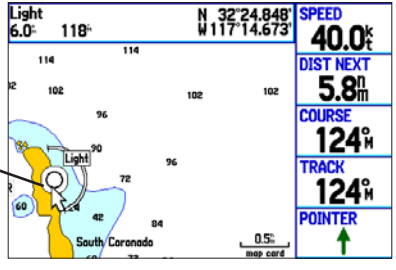
Panning the Map

Use the panning arrow to pan the map to view other map areas. As you pan past the edge of the current map display, the screen moves to provide continuous map coverage. The position icon stays in your present location and might not be visible on the screen when you pan the map.

To pan the map:

Press up, down, right, or left on the **ROCKER**. The panning arrow moves the map so you can view different parts of the map.

Map feature highlighted



As you move the arrow, the distance and bearing from your present location to the arrow appears in the data window, along with the arrow’s position coordinates. When the arrow is stationary, fixed coordinates appear in the position field, and the distance and bearing from your present location update as you move. When you zoom in pan mode, the arrow stays centered on the screen.

To re-center your position on the screen:

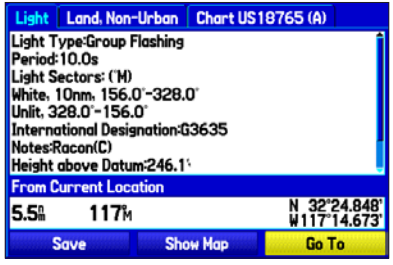
Press **QUIT**. The map automatically moves to show your present location, and the unit returns to position mode.

You can also use the arrow to select on-screen map items, which allows you to review a selected item directly from the map.

To view details about an on-screen point:

1. Use the **ROCKER** to move the arrow to a waypoint or map item. If several items are grouped closely together, zoom in closer for a better view.

   When a waypoint or map item is selected, it is highlighted on-screen with the name and location shown at the top of the screen, along with the distance and bearing from your current location, as shown in the image to the left.
2. Press **ENTER** to view more information about the point. The information and on-screen buttons shown vary depending on the type of item selected. In some cases, additional information tabs appear at the top of the information page or Waypoint Page.
3. Use the **ROCKER** to highlight the extra tabs and view the information.
4. Select an on-screen button, and press **ENTER**.



Map Feature Information Page

Clearing Unwanted Details from the Map

You can remove items from the Map Page (declutter the display) to remove unwanted items.

To declutter the Map Page:

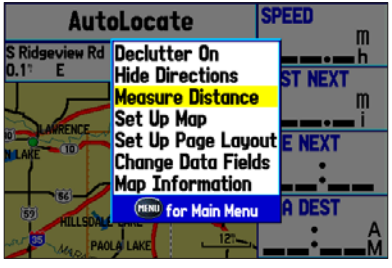
1. On the Map Page, press **MENU** to open the options menu.
2. Highlight **Declutter**, and press **ENTER**.
3. Press **ENTER** again to restore the detail to the map.

Measuring Distance

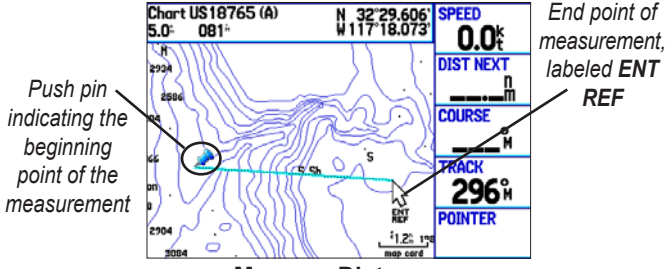
You can measure the distance and bearing between two map items.

To measure the bearing/distance between two points:

1. On the Map Page, press **MENU** to open the options menu.
2. Highlight **Measure Distance**, and press **ENTER**. An on-screen arrow appears on the map at your present location with **ENT REF** below it.



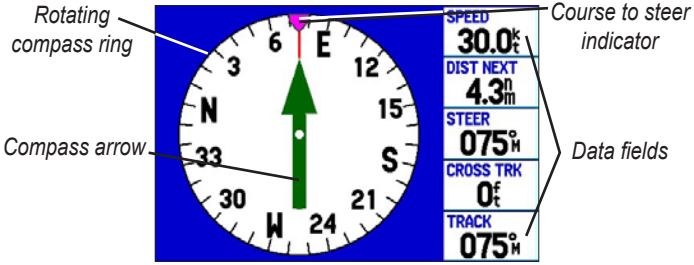
3. Move the arrow to the reference point (the starting point that you want to measure from), and press **ENTER**. A push pin icon marks the starting point.
4. Move the arrow to the point of which you want to measure. The bearing and distance from the reference point and arrow coordinates appear in the data window at the top of the screen.



Measure Distance

Compass Page

During active navigation, the Compass Page guides you to your destination with a graphic compass and a bearing pointer. When the pointer is pointing straight up, you are heading directly to your destination.



Compass Page in Marine Mode

The middle of the page features a rotating compass ring that shows your course over ground (track) while you are moving. Your present course over ground is indicated at the top of the compass ring. The direction of the destination (bearing) relative to the course over ground is indicated by an arrow in the middle of the compass ring and a course to steer "bug" on the outside of the compass ring. The course to steer represents the direction to steer to get back to the course line.

If the arrow points up, you are going directly to the waypoint. If the arrow points any direction other than up, turn toward the arrow until it points up, and then continue in that direction.

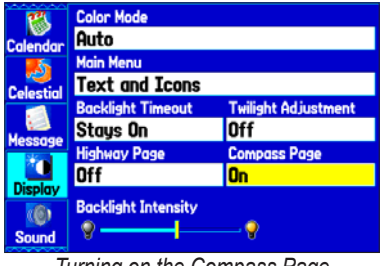
NOTE: You must be moving for the compass to accurately update and show your heading.

Turning On the Compass Page

The Compass Page is on by default in Marine Mode but off by default in Automotive Mode.

To show the Compass Page in Automotive Mode:

1. Highlight the **Display** tab on the Main Menu.
2. Highlight the **Compass Page** field, and press **ENTER**.
3. Select **On**, and press **ENTER**.

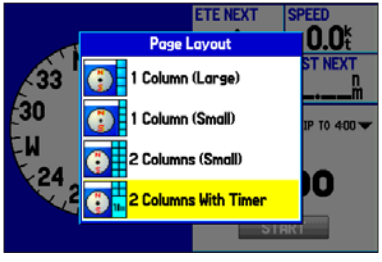


Turning on the Compass Page

Compass Page Options

Use the options menu on the Compass Page to customize the Compass Page.

Press **MENU** to open the Compass Page options menu.



Set Up Page Layout—selects the page layout.

Show Course Pointer/Show Compass—toggles between showing the Course Pointer, which shows how far off you are from your course and how to get back on course, or shows the compass arrow. The Course Pointer is also referred to as a CDI or Course Deviation Indictor.

Show (Hide) Bug Indicator—shows the course to steer bug indicator (the purple tick mark on the compass ring).

Change Data Fields—changes on-screen data fields. For definitions of data field options, see page 116.

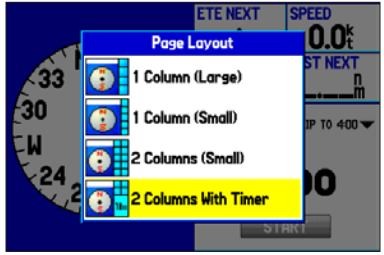
Using the Marine Timer

The Marine Timer, specifically designed for sail boat racing, allows you to easily count up or down by specified time increments. As is common in sail boat racing, there is often a 5-minute warning countdown, followed by a 4-minute preparation countdown, and finally a 1-minute final countdown. Then during the race, mariners might want to count up to keep track of their time.

You can use your GPSMAP 276C to perform each of these different countdowns.

To open the Marine Timer:

1. Press **MENU** on the Compass Page.
2. Highlight **Set Up Page Layout**, and press **ENTER**.
3. Highlight **2 Columns With Timer**, and press **ENTER**. The Marine Timer appears in the lower right corner.



To use the Marine Timer:

1. Press the **ROCKER** up or down to select the time you want to count. Five (5) minutes is the default.
2. Press **ENTER** to start the timer. Use the **ROCKER** during the timing to quickly select a different length of time.
3. Press **ENTER** to stop timing.

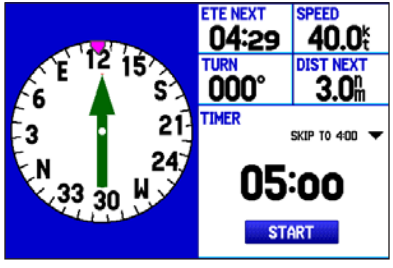
Marine Timer on the Compass Page

As discussed previously, the timer is set to count down five minutes. If you want to change the length of time and the behavior of the timer, open the **Timers Setup** tab on the Main Menu.

NOTE: You can set the timer countdown for up to 60 minutes.

To set the Marine Timer:

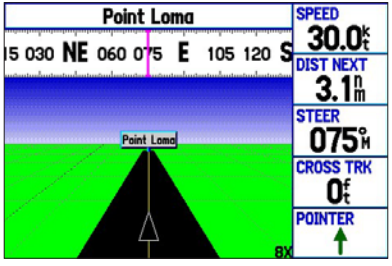
1. Highlight the **Setup** tab on the Main Menu, and then select the **Timers** sub tab.
2. Highlight **Stop** to change the timer's behavior.



3. To enter a new time highlight the time field, press **ENTER**, and then use the **ROCKER**.

Highway Page

The Highway Page is available in both Marine Mode and Automotive Mode.



Highway Page

When you are navigating, the Highway Page provides digital and graphic steering guidance to the destination. The right side of the Highway Page features user-selectable data fields showing useful navigation information. A compass ribbon appears at the top of the page to show your current heading, represented by the violet bar. The red vertical bar represents the bearing to your course. To stay on course, steer toward the red vertical indicator (or arrows) until it lines up with the violet bar in the middle. The bottom of the screen provides visual guidance to the waypoint on a graphic highway display. The line down the center of the highway represents your preferred track line.

To hide or show the Highway Page:

1. Highlight the **Display** tab on the Main Menu.
2. Highlight the **Highway Page** field, and press **ENTER**.
3. Select **Off** to hide or **On** to show, and press **ENTER**.

Using the Highway Page

As you head toward your destination, the highway perspective moves to indicate your progress to the waypoint and which direction you should steer to stay on course. If you are navigating a route, the Highway Page shows each route waypoint in sequence connected by a black “road” with a white line down the middle, which is your preferred track line. Nearby waypoints not in the active route can also be shown. You can zoom in or out to show a larger or smaller view of the highway.

To change the highway perspective scale:

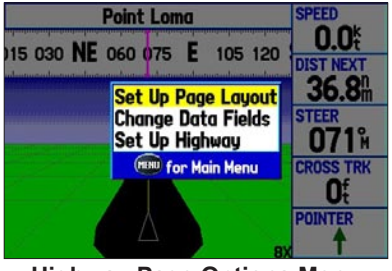
1. Press **IN** to zoom in; press **OUT** to zoom out.

Highway Page Options

Use the Highway Page options menu to define the data fields and select which waypoints and tracks appear on the screen.

To show and select the Highway Page Options:

1. Press **PAGE** repeatedly until the Highway Page appears.
2. Press **MENU**.
3. Highlight an option, and press **ENTER**.



Highway Page Options Menu

The following options are available from the Highway Page options menu:

Set Up Page Layout—selects the page layout.

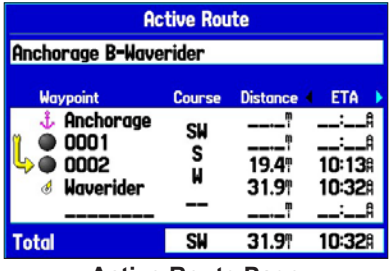
Change Data Fields—changes on-screen data fields.

Set Up Highway—shows an options menu with two sub tabs: **Line** and **Waypoint**. Each tab has on/off settings for options, including enabling the line for the Active Leg and Track Log.

Set Up Highway

Active Route Page

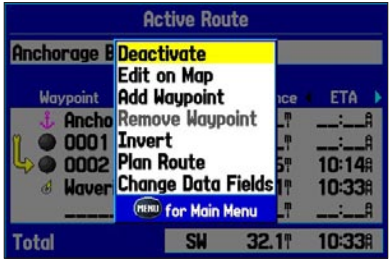
When you are navigating a route using your GPSMAP 276C, the Active Route Page shows each point (waypoint or map item) of the active route, with the point name, course, distance, and several other fields of information. The current destination point, or active point, is marked with an arrow icon. As you navigate a route, the list automatically updates to indicate the next active point. The Active Route and Route Review Pages share many of the same features and options.



Active Route Page

Active Route Page Options

Press **MENU** to open the Active Route Page options menu:



Active Route Page Options Menu

Deactivate—stops route navigation.

Edit on Map—edits the route on the map.

Add Waypoint—inserts a point before the highlighted waypoint or add a point to the end of the route.

Remove Waypoint—deletes a highlighted waypoint from the route.

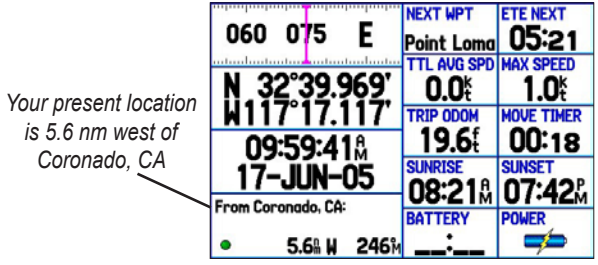
Invert—reverses the order of the route.

Plan Route—enters information about your route to more accurately provide you with arrival times.

Change Data Fields—customizes the data fields shown on the Active Route Page.

Position Data Page

The Position Data Page shows important navigation data while navigating a route in Marine Mode. By default, the Position Data Page shows a compass ribbon, your current latitude and longitude, date and time, your location in relation to a prominent nearby landmark such as a waypoint or city, and eight user-selectable data fields. The compass ribbon appears at the top of the page to show your current heading with a red, vertical bar. To stay on course, steer toward the violet bar (or arrows) until it is aligned with the red bar.



Position Data Page

Position Data Page Options

Press **MENU** to open the Position Data Page options menu.

Change Nearest Type—specifies the type of item used as the nearest item (shown in the lower-left data field). The choices change based on the current usage mode.

Reset Trip—clears trip information, except the maximum speed and the odometer.

Reset Max Speed—clears the maximum speed.

Reset Odometer—clears the running total of the distance traveled since the odometer was last reset.

Reset All—clears all trip information including the maximum speed and odometer.

Automotive Mode

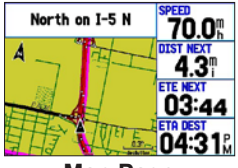
This section discusses some of the more common Automotive operations you can perform with your GPSMAP 276C in Automotive Mode. Please note that many common operations, such as marking a waypoint and creating a route, are performed the same way as in Marine Mode. See the Marine Mode section for operations and information not found in this section.

To switch usage modes:

1. Press and hold the **PAGE** key.
2. Use the **ROCKER** to select either **Automotive** or **Marine**, and press **ENTER**.

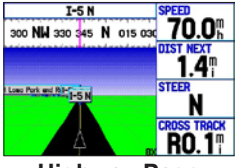
Automotive Mode Pages

Automotive Mode features two main pages: Map and Trip Computer. Optional Highway and Compass Pages can be turned on in Automotive Mode. Two additional pages appear during active navigation while in Automotive Mode—a Current Route Page appears if you are navigating a turn-by-turn route and an Active Route Page appears if you are navigating off-road. See "Navigating to a Destination" on the next page for more information.

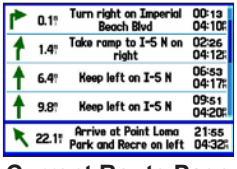


Map Page

Compass Page (Optional)



Highway Page (Optional)


0.1 Turn right on Imperial Beach Blvd 00:13 04:10
1.4 Take ramp to I-5 N on right 02:26 04:12
6.4 Keep left on I-5 N 06:53 04:17
9.8 Keep left on I-5 N 09:51 04:20
22.1 Arrive at Point Loma Park and Recre on left 21:55 04:32

Current Route Page

Trip Computer Page

Navigating to a Destination

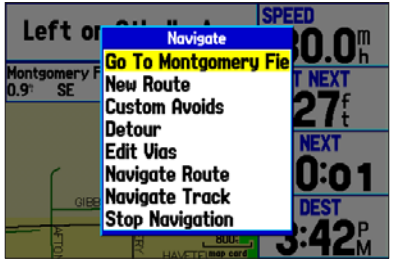
You can navigate to your destination in Automotive Mode using the Map Page. As you travel, your GPSMAP 276C guides you to your destination with voice prompts, arrows, and directions along the top of the screen. When you are actively navigating, you see a magenta line that always runs from your currnt location to the destination or to the next turn on the Map Page. You can use the Map Page, Compass Page, or Highway Page to help navigate.

You can navigate to a destination using one of the following methods:

- Select a point on the map, and press the **NAV** key.
- Press the **NAV** key to navigate a new route using the Find Menu, or start a saved route or track.
- Press the **FIND** key to search for a particular item and create a route to it.

Navigate Options Menu

Press **NAV** to open the Navigate options menu.



Navigate Menu

Go To Point—selects a waypoint or another point from the Find Menu to which to navigate.

New Route—creates a new route.

Custom Avoids—sets up roads to avoid when navigating.

Detour—creates a detour route while navigating.

Edit Vias—adds points through which you want to travel when navigating.

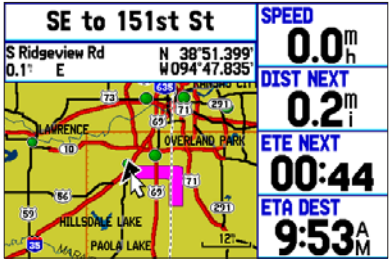
Navigate Route—selects a route to navigate.

Navigate Track (TracBack)—selects a saved track to navigate.

Stop (Resume) Navigation—starts or stops navigating.

To navigate (Go To) a point on the map:

1. Highlight a point to navigate to, and press **NAV**.
2. Highlight **Go To <point name>**, and press **ENTER**.
3. Follow the magenta route created on the Map Page.

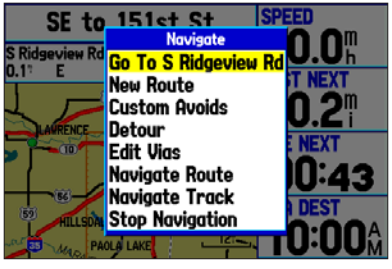


Stopping and Resuming Navigation

When navigating to a point, you can stop navigation. For example, if you are on a long car trip, but you want to stop for dinner, you can stop navigation and resume after dinner.

To stop navigation:

1. While navigating to a point, press **NAV**.



2. Highlight **Stop Navigation**, and press **ENTER**.
3. To resume, highlight **Resume Navigation**, and press **ENTER**.

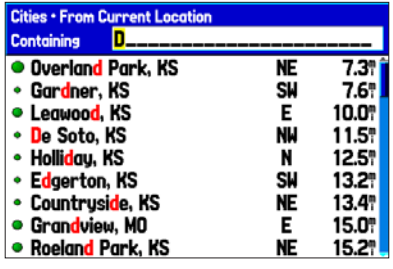
To create a new route:

1. Press **NAV** to open the Navigate Menu.
2. Highlight **New Route**, and press **ENTER**.
3. From the Find Menu, highlight **Waypoints**, and press **ENTER**. (You can also choose to go to other points, such as **Cities** or **Exits** from this list. The steps vary only slightly from those listed for waypoints.)
4. Select a waypoint from the list, and press **ENTER** to open the Waypoint Review Page.

5. Highlight the **Go To** button, and press **ENTER** to begin navigation.

To go to a destination using the Find Menu:

1. Press **FIND** to open the Find Menu.
2. Highlight a category, and press **ENTER**.
3. Press **ENTER**, and use the **ROCKER** to begin entering the letters contained in the item name. The list begins to sort by the items which contain the letters you are entering. Press **ENTER** when finished.


Cities • From Current Location
Containing D
Overland Park, KS NE 7.3
Gardner, KS SW 7.6
Leawood, KS E 10.0
De Soto, KS NW 11.5
Holliday, KS N 12.5
Edgerton, KS SW 13.2
Countryside, KS NE 13.4
Grandview, MO E 15.0
Roeland Park, KS NE 15.2

4. Highlight the item you want from the list, and press **ENTER**.
5. Highlight the **Go To** button, and press **ENTER**.

For complete information about finding an item, see the "Finding an Item" section on page 17.

Following a Saved Route

Use the Navigate Menu to follow a saved track or route. If you want to follow roads on your route, press **MENU** and select **Follow Roads** on the Active Route Page.

To follow a saved route:

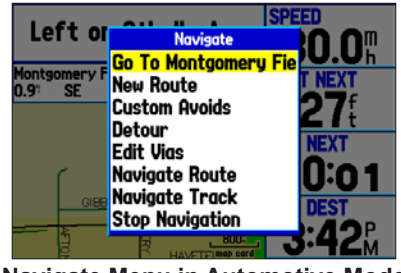
1. Press **NAV** to open the Navigate Menu.
2. Highlight **Navigate Route**, and press **ENTER**.
3. Highlight the route you want to navigate, and press **ENTER**.
4. Press **MENU** to open the options menu.
5. Highlight **Follow Roads**, and press **ENTER** to create a turn-by-turn route, which appears on the Current Route Page.

You can also initiate a saved route from the Route tab on the Main Menu.

Editing Your Route

When you are navigating a route, you can edit that route. You can add areas and roads to avoid, as well as temporary detours, to your current route. You can also add stops along your trip, called Via Points.

While navigating, press **NAV** to open the Navigate Menu.



Navigate Menu in Automotive Mode

While navigating a course

Entering Custom Avoids

The Custom Avoids feature allows you to enter specific areas and roads to avoid when navigating. Custom Avoids apply to all routes, but detours apply to only the active route. You can add Custom Avoids while you are navigating a route or before you navigate.

To enter a custom avoid:

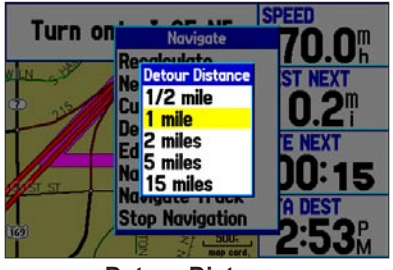
1. Press **NAV** while navigating to a destination.
   OR
   Open the Map Page, and press **MENU**.
2. Select **Custom Avoids**, and press **ENTER**.
3. Press **ENTER** when the **Add Avoid** button is highlighted.
4. Select **Avoid Road** or **Avoid Area**, and press **ENTER**.
5. Use the **ROCKER** to move the arrow to the first point in the avoidance area. Press **ENTER** to select the first point.
6. Move the arrow to the end point, and press **ENTER**. During route calculation and navigation, the GPSMAP 276C avoids the area within the box or the selected area of the road.
7. When finished, highlight the **OK** button, and press **ENTER**.

Creating a Detour

If there is road construction or some other form of a detour while navigating a route, you can have your GPSMAP 276C create a detour route for you.

To create a detour:

1. While navigating a course, press **NAV**.
2. Select **Detour** from the Navigate Menu.
3. Select a distance, and press **ENTER**. The GPSMAP 276C recalculates your course based on your detour distance.



Detour Distance

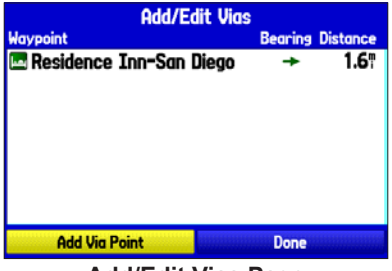
4. To end the detour manually, press **NAV** again, and select **Cancel Detour**.

Adding and Editing Stops (Via Points)

You can add Via Points—points through which you would like to travel—to your route using the **Edit Vias** option.

To add Via Points to your route:

1. While navigating your route, press **NAV** to open the Navigate Menu.
2. Select **Edit Vias**, and press **ENTER**. The Add/Edit Vias window opens.
3. Highlight **Add Via Point**, and press **ENTER**.



Add/Edit Vias Page

Showing the original route without Via Points

4. From the pop-up window, highlight either **Use Map** or **Use Find Menu**, and press **ENTER**.
5. If you selected **Use Map**, use the **ROCKER** to select an item on the map, and press **ENTER**.

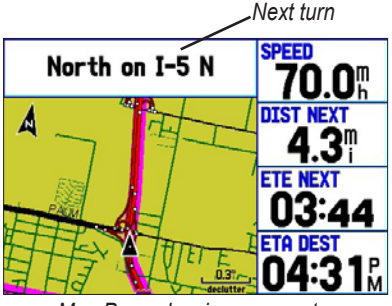
   If you selected **Use Find Menu**, select an item from the Find Menu as discussed in the "Finding an Item" beginning on page 17. Remember you can press **MENU** while the Find Menu is open to find an item near another location, such as the destination. The new point is added to the route as shown on the Add/Edit Vias Page.
6. Repeat steps 3 through 5 until you have added all of the Via Points that you want. Highlight **Done**, and press **ENTER** to apply the new Via Points to the route.

Following an Automotive Route

The GPSMAP 276C guides you to your destination using many tools, such as the Map Page and Current Route Page.

Track Your Progress with the Map Page

You can track the progress of your route on the Map Page. Your route is shown with a magenta line. The next turn is shown in the top bar on the Map Page.



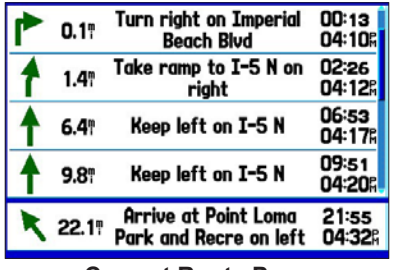
Map Page showing your route

Watch Your Trip Data

Use the Trip Computer Page to view your trip data. You can track your speed here, as well as other information related to your trip.

See Your Next Turn With the Current Route Page

Whenever you have initiated a turn-by-turn route in the GPSMAP 276C set in Automotive Mode, the Current Route Page shows each turn of the active route.



Current Route Page